

18



(KNOWLEDGE FOR DEVELOPMENT)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS
YEAR ONE SEMESTER ONE EXAMINATIONS**

**FOR DIPLOMA
(INFORMATION TECHNOLOGY)**

COURSE CODE : DIT 054
COURSE TITLE : WINDOWS OPERATING SYSTEMS

DATE: 29/09/2021 TIME: 11.00 A.M. – 1.00 P.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSARY) [24 MARKS]

- a. List four types of Windows versions. [2Marks]
- b. Describe the THREE general roles of an operating system, and elaborate why these roles are important. [6Marks]
- c. Describe the relationship between threads and processes? [4Marks]
- d. Explain THREE types of user interfaces employed by different commercial Operating systems. [6Marks]
- e. Define the following terms as used in operating system. [5Marks]
 - i. Processes
 - ii. Virtual memory
 - iii. Threads
 - iv. Cache Memory
 - v. kernel
- f. Is putting security checks in the C library a good or a bad idea? Why? [1Marks]

QUESTION TWO [18 MARKS]

- a. State Features of a graphical user interface. [3Marks]
- b. Explain the relationship between operating systems and computer hardware? [2Marks]
- c. State 6 reasons why an operating System is needed in a computer [6Marks]
- d. Identify FOUR resources that the Operating system should manage [4Marks]
- e. Why is Windows termed as a friendly Operating system? [3Marks]

QUESTION THREE [18 MARKS]

- a. Differentiate between multi-user and multitasking operating systems. [4Marks]
- b. State three attributes of a process? [3Marks]
- c. Multi-programming (or multi-tasking) enables more than a single process to apparently execute simultaneously. How is this achieved on a uniprocessor? [4Marks]
- d. What is meant by the term Job in computer studies? [3Marks]
- e. What criteria are used to classify types of operating systems? [4Marks]

QUESTION FOUR [18 MARKS]

- a. What Is Root Partition? **[1Marks]**
- b. State factors to consider when choosing an operating system. **[3Marks]**
- c. List four key features of the Windows Operating environment **[4Marks]**
- d. Describe the four generation of computing and how the operating system developed as a result. **[4Marks]**
- e. Name three types of user interfaces employed by different commercial Operating systems **[4Marks]**

QUESTION FIVE [18 MARKS]

- a. Describe the evolution of the following operating systems **[10Marks]**
 - i. Microsoft windows
 - ii. Mac OS
 - iii. Linux
 - iv. DOS (Disk Operating System)
 - v. Unix
- b. Give the Differences between UNIX and Linux Operating Systems? **[4Marks]**
- c. Advantages and disadvantages of Operating System **[4Marks]**